JOURNAL OF
Inorganic Biochemistry

Volume 61, Number 1, January 1996

Contents

THOMAS D. RICHARDS, KELLY R. PITTS, and GERALD D. WATT (Provo, Utah)
A Kinetic Study of Iron Release from Azotobacter vinelandii Bacterial Ferritin **1**

LAI BIN LUO, HUI LAN CHEN, ZHENG WU, HONG YAN, and WEN XIA TANG (Nanjing, P. R. China)
Synthesis and Characterization of Coenzyme B_{12} Base-Off Form Analogs—2′-deoxynucleosidylcobinamides **15**

PAUL C. HARKINS (New Haven, Connecticut), GEORGE PETERSSON, and PAUL HAAKE (Middletown, Connecticut)
Distortion of O—P—O Bond Angles in Phosphorus Monoanions: *Ab Initio* Studies **25**

ANNEKATHRIN HABERLAND, WERNER DAMERAU, REINHARD STÖßER, INGOLF SCHIMKE, and GERT BAUMANN (Berlin, Germany)
Fe^{2+}/Vitamin C—An Appropriate *In Vitro* Model System to Initiate Lipid Peroxidation **43**

FLORIAN PRUCHNIK and DANUTA DUŚ (Wroclaw, Poland)
Properties of Rhodium(II) Complexes Having Cytostatic Activity **55**

K. MERNISSI-ARIFI, C. WEHRER, G. SCHLEWER, and B. SPIESS (Illkirch Cedex, France)
Reinvestigation of the ^{31}P NMR Studies of the D *Myo*-Inositol 1,2,6 Tris(phosphate)-Zinc Complexes **63**

JURAJ BUJDÁK (Bratislava, Slovakia), ARTUR EDER, YONGYOS YONGYAI (Innsbruck, Austria), KATARÍNA FAYBÍKOVÁ (Bratislava, Slovakia), and BERND M. RODE (Innsbruck, Austria)
Investigation on the Mechanism of Peptide Chain Prolongation on Montmorillonite **69**

Volume 61, Number 2, February 1, 1996

Contents

ESMA TÜTEM, REŞAT APAK, and KEVSER SÖZGEN (İstanbul, Turkey)
The Interaction of Antitumor-Active Anthraquinones with Biologically Important Redox Couples: I. Spectrophotometric Investigation of the Interaction of Carminic Acid and Mitoxantrone with the Iron(II, III) and Copper(I, II) Redox Couples **79**

JOSÉ S. CASAS, MARÍA V. CASTAÑO, MARÍA S. GARCÍA-TASENDE, TERESA PÉREZ-ALVAREZ, AGUSTÍN SÁNCHEZ, and JOSÉ SORDO (Santiago de Compostela (Galicia), Spain)
Compounds of L(+)-Ascorbic Acid with Dimethylthallium(III), Dimethyltin(IV), and Dibutyltin(IV): Synthesis, Solid-State Spectroscopy (CP/MAS ^{13}C NMR and IR), and Multi-NMR Behavior in Aqueous Solution **97**

RENZO CINI and ROBERTA BOZZI (Siena, Italy)
Synthesis and Characterization of Crystalline Copper(II)- and Zinc(II)-Adenosine 5′-Triphosphate (ATP) -2,2′:6′,2″-Terpyridine (TPY) Ternary Compounds **109**

M. A. BEILSTEIN, S. C. VENDELAND, E. BAROFSKY, O. N. JENSEN, and P. D. WHANGER (Corvallis, Oregon)
Selenoprotein W of Rat Muscle Binds Glutathione and an Unknown Small Molecular Weight Moiety **117**

RAJESH K. MEHRA, KIM TRAN, GARY W. SCOTT, PRITI MULCHANDANI, and SHAMSHER S. SAINI (Riverside, California)
Ag(I)-Binding to Phytochelatins **125**

F. BLASCO, L. PERELLÓ, J. LATORRE, J. BORRÁS (Valencia, Spain), and S. GARCIÁ-GRANDA (Oviedo, Spain)
Cobalt(II), Nickel(II), and Copper(II) Complexes of Sulfanilamide Derivatives: Synthesis, Spectroscopic Studies, and Antibacterial Activity. Crystal Structure of $[Co(sulfacetamide)_2(NCS)_2]$ **143**

Volume 61, Number 3, February 15, 1996

Contents

S. LAKSHMI, D. SARAVANAN, R. RENGANATHAN, and M. VELUSAMY (Tamil Nadu, India)
Stopped-Flow Kinetic Investigation of the Oxidation of Ascorbic Acid by Iron(III) Benzohydroxamic Acid **155**

PIER G. DANIELE (Messina S. Agata, Italy), ENRICO PRENESTI, and GIORGIO OSTACOLI (Torino, Italy)
L-γ-Glutamyl-L-∈-Lysine and L-Glutamyl-L-∈-Lysine Coordination Properties Towards Copper(II) and Nickel(II) in Aqueous Solution **165**

A. K. PAUL, T. S. SRIVASTAVA, S. J. CHAVAN, M. P. CHITNIS, S. DESAI, and K. K. RAO (Bombay, India)
Synthesis, Characterization, Cytotoxic, and DNA Binding Studies of Some Platinum(II) Complexes of 1,2-Diamine and α-Diimine with 2-Pyridinecarboxylate Anion **179**

IZTOK TUREL (Ljubljana, Slovenia), KARL GRUBER (Graz, Austria), IVAN LEBAN, and NATAŠA BUKOVEC (Ljubljana, Slovenia)
Synthesis, Crystal Structure, and Characterization of Three Novel Compounds of the Quinolone Family Member (Norfloxacin) **197**

MALGORZATA JEZOWSKA-BOJCZUK (Wroclaw, Poland), SOPHIE LAMOTTE (Villeneuve d'Ascq, France), and TOMAS TRNKA (Prague, Czech Republic)
Potentiometric and Spectroscopic Study of Copper(II) Ion Binding by 1,6-Anhydro-Derivatives of Aminosugars **213**

VLADIMIR V. KOBAK, MARINA V. SUTKEVICH, IRINA G. PLASHCHINA, and EVGENY E. BRAUDO (Moscow, Russia)
Non-Stoichiometric Binding of Lead(II) Ions by Sodium Alginate **221**

OL'GA LABUDOVÁ, JÁN LABUDA, L'UBICA FENÍKOVÁ, MARTA KOLLÁROVÁ, and ZDENA ĎURAČKOVÁ (Bratislava, Slovakia)
Nuclease Mimetic Effect of Copper Complex Compounds **227**

Volume 61, Number 4, March 1996

Contents

VICTOR E. YUSHMANOV, HIDETAKE IMASATO, TANIA T. TOMINAGA, and MARCEL TABAK (São Carlos, SP, Brasil)
^{1}H NMR and Electronic Absorption Spectroscopy of Paramagnetic Water-Soluble *Meso*-Tetraarylsubstituted Cationic and Anionic Metalloporphyrins **233**

HUA YUAN, WILLIAM E. ANTHOLINE (Milwaukee, Wisconsin), WITOLD K. SUBCZYNSKI (Krakow, Poland), and MARK A. GREEN (West Lafayette, Indiana)
Release of CuPTSM from Human Serum Albumin After Addition of Fatty Acids **251**

S. GONZÁLEZ, J. M. TERCERO, A. MATILLA (Granada, Spain), J. M. PÉREZ, V. M. GONZÁLEZ, C. ALONSO (Madrid, Spain), AND J. NICLÓS-GUTIÉRREZ (Granada, Spain)
Cis-Dichloro(Diaminosuccinate Diethyl Ester)Palladium (II) as Pd(II)/Pt(II) Model Compound for DNA-Binding and Antitumor Properties: Solution Equilibria of their Aqua-, Hydroxo-, and/or Chloro-Species **261**

JANICE BRAMHAM (Dundee, Scotland), A. NIGEL CARTER (San Diego, California), and FRANK G. RIDDELL (St. Andrews, Scotland)
The Uptake of Li^+ into Human 1321 N1 Astrocytomas Using ^{7}Li NMR Spectroscopy **273**

P. A. M. WILLIAMS, S. B. ETCHEVERRY, and E. J. BARAN (La Plata, Argentina)
A Spectrophotometric Study of the Interaction of VO^{2+} with Cytosine in Nucleotides **285**

S. SHAMSUDDIN, IKUO TAKAHASHI, ZAHID H. SIDDIK, and ABDUL R. KHOKHAR (Houston, Texas)
Synthesis, Characterization, and Antitumor Activity of a Series of Novel Cisplatin Analogs with cis-1,4-Diaminocyclohexane as Nonleaving Amine Group **291**